

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

#### **Listing of Claims:**

1. (Currently amended) A method for modifying a porous film mainly having Si-O bonds, ~~wherein a thermal treatment is conducted~~ comprising:

conducting a thermal treatment at a temperature from 100 °C to 600 °C to the porous film without using a metal catalyst, wherein in the thermal treatment, the porous film is brought into contact with ~~by bringing~~ an organic silicon compound including one or more Si-X-Si bond unit (wherein X represents O, NR, C<sub>n</sub>H<sub>2n</sub>, or C<sub>6</sub>H<sub>4</sub>; R represents C<sub>m</sub>H<sub>2m+1</sub> or C<sub>6</sub>H<sub>5</sub>; m is an integer between 1 and 6; and n is 1 or 2) and two or more Si-A bond units (wherein A represents H, OH, OC<sub>e</sub>H<sub>2e+1</sub> or a halogen atom and may be the same or different within a single molecule; and e is an integer between 1 and 6) ~~into contact with the porous film,~~ and wherein the contacting is carried out in a gas phase.

2. (Cancelled)

3. (Previously presented) The method for modifying a porous film according to claim 1, wherein the porous film before the treatment is a film having mesopores.

4. (Currently amended) The method for modifying a porous film according to claim ~~[[3]]~~ 1, wherein an average pore diameter of the porous film before the treatment is in a range of 0.5 to 10 nm.

5. (Previously presented) The method for modifying a porous film according to claim 1, wherein the organic silicon compound is a cyclic siloxane.
6. (Previously presented) A modified porous film obtained by the method as described in claim 1.
7. (Original) A semiconductor material comprising the modified porous film as described in claim 6.
8. (Original) A semiconductor device in which the semiconductor material as described in claim 7 is used.
9. (Previously presented) The method for modifying a porous film according to claim 2, wherein the porous film before the treatment is a film having mesopores.
10. (Previously presented) The method for modifying a porous film according to claim 2, wherein the organic silicon compound is a cyclic siloxane.
11. (Previously presented) The method for modifying a porous film according to claim 3, wherein the organic silicon compound is a cyclic siloxane.
12. (Previously presented) The method for modifying a porous film according to claim 4, wherein the organic silicon compound is a cyclic siloxane.
13. (Previously presented) The method for modifying a porous film according to claim 9, wherein the organic silicon compound is a cyclic siloxane.

14. (Previously presented) A modified porous film obtained by the method as described in claim 2.

15. (Previously presented) A modified porous film obtained by the method as described in claim 3.

16. (Previously presented) A modified porous film obtained by the method as described in claim 4.

17. (Previously presented) A semiconductor material comprising the modified porous film as described in claim 14.

18. (Previously presented) A semiconductor material comprising the modified porous film as described in claim 15.

19. (Previously presented) A semiconductor device in which the semiconductor material as described in claim 17 is used.

20. (Previously presented) A semiconductor device in which the semiconductor material as described in claim 18 is used.